

What Is Claimed Is:

1 1. A vehicle surveillance system, comprising:
2 a plurality of digital cameras mounted on a vehicles's interior and exterior for photographing
3 a driving information, the interior environment of the vehicle and exterior views around the vehicle
4 to eliminate blind spots inherent to the vehicle's mirrors;
5 a monitor mounted on a front panel of the vehicle for displaying image information
6 photographed by each digital camera on a screen of said monitor;
7 a key operator integrated with the monitor and disposed on a front face of said monitor, said
8 key operator being utilized by an occupant of said vehicle for controlling how the image information
9 is displayed on the screen of said monitor and for setting a photographing schedule for the digital
10 cameras;
11 a system controller for controlling every part of said vehicle surveillance system according
12 to a signal input from said key operator;
13 a memory, being attachable/detachable with the system controller through a communications
14 port, for sequentially saving the image information photographed by the digital cameras under the
15 control of the system controller;
16 a power supply, being charged by a car battery, for supplying power to every part of the
17 vehicle surveillance system; and
18 an operation controller for turning on/off the power supply and every part of the vehicle
19 surveillance system.

1 2. The vehicle surveillance system as set forth in claim 1, wherein every part of the
2 vehicle surveillance system is connected to said system controller through respective
3 communications ports.

1 3. The vehicle surveillance system as set forth in claim 1, further comprising:
2 a printer, a keyboard and a mouse connected to said system controller through respective
3 communications ports.

1 4. The vehicle surveillance system as set forth in claim 1, further comprising:
2 a case, mounted is a predetermined area of said vehicle, in which said power supply, said
3 system controller and said memory are mounted.

1 5. The vehicle surveillance system as set forth in claim 1, further comprising:
2 a sound memory storing a plurality of predetermined sounds, including voice sounds;
3 a sound detector for detecting sounds in close proximity to said vehicle;
4 a sound analyzer for comparing a detected sound to the sounds stored in said sound memory;
5 and
6 an alarm generator for generating an audible alarm through a speaker to the exterior of said
7 vehicle when said sound analyzer determines the detected sound corresponds to one of said stored
8 sounds.

1 6. The vehicle surveillance system as set forth in claim 1, further comprising:
2 a compact disc player, a digital video disk player and a television receiver each being
3 connected to said system controller for displaying images on the screen of said monitor.

1 7. The vehicle surveillance system as set forth in claim 5, further comprising:
2 a compact disc player, a digital video disk player and a television receiver each being
3 connected to said system controller for displaying images on the screen of said monitor.

1 8. The vehicle surveillance system as set forth in claim 1, said system controller
2 including:
3 a charging switch for charging the power supply through the car battery;
4 a camera operation switch for turning on/off the operation of each digital camera;
5 a control switch for controlling the operation of the system controller;
6 a power supply switch for supplying power provided by the power supply to each part of the
7 vehicle surveillance system;
8 a light emitting diode for indicating an operating status of the system controller; and
9 a reset switch for initializing the operating status of the system controller.

1 9. The vehicle surveillance system as set forth in claim 1, said monitor including:
2 a plurality of screens for displaying the images photographed by the digital cameras;

3 a time display window for displaying date and time of the photographing; and
4 an information display window for displaying information pertaining to the image
5 photographs of each digital camera using user recognizable letters.

1 10. The vehicle surveillance system as set forth in claim 9, wherein an image displayed
2 on any one of said screens can be magnified based on a touch screen method.

1 11. The vehicle surveillance system as set forth in claim 9, said key operator including:
2 a primary button for inverting the images, which have been photographed by each digital
3 camera and displayed;
4 a secondary button for splitting and inverting the images, which have been photographed
5 by each digital camera and displayed, and
6 a third button splitting the images, which have been photographed by each digital camera and
7 displayed, into several regions;
8 a motion tracer button for tracing the motions of the images;
9 a search button for searching for the image information saved in the memory; and
10 a setup button for enabling the operator to control the functions of each of the named buttons
11 include in said key operator.

1 12. The vehicle surveillance system as set forth in claim 9, said setup button being
2 utilized to set channels for the screens to display the image information photographed by each digital

3 camera, to set a display screen color, to set a photographing schedule for every digital camera, to set
4 a photographing speed of the digital cameras, to set a memory recording speed for recording the
5 images photographed by the digital cameras, and to adjust blocks and sensitivities of the images
6 designated through the motion tracer button.

1 13. The vehicle surveillance system as set forth in claim 1, further comprising left and
2 right side mirrors on which two of said digital cameras are mounted, said two digital cameras having
3 a view point towards the rear of said vehicle.

1 14. The vehicle surveillance system as set forth in claim 1, further comprising
2 at least one of said digital cameras being mounted on an interior portion of the vehicles's roof
3 for photographing areas in front of said vehicle;

4 at least one of said digital cameras being mounted on the interior portion of the vehicles's
5 roof for photographing areas in back of said vehicle;

6 at least one of said digital cameras being mounted on an interior portion of the vehicles's roof
7 for photographing a dashboard of said vehicle to photograph said driving information; and

8 at least one of said digital cameras being mounted on an interior portion of the vehicles's roof
9 for photographing interior areas of said vehicle to photograph said interior environment.

1 15. A vehicle surveillance system comprising:

2 a sound memory storing a plurality of predetermined sounds, including voice sounds;

3 a sound detector for detecting sounds in close proximity to said vehicle;
4 a sound analyzer for comparing a detected sound to the sounds stored in said sound memory;
5 and
6 an alarm generator for generating an audible alarm through a speaker to the exterior of said
7 vehicle when said sound analyzer determines the detected sound corresponds to one of said stored
8 sounds.

1 16. The vehicle surveillance system as set forth in claim 15, further comprising:
2 a plurality of digital cameras mounted on a vehicles's interior and exterior for photographing
3 a driving information, the interior environment of the vehicle and exterior views around the vehicle
4 to eliminate blind spots inherent to the vehicle's mirrors;
5 a monitor mounted on a front panel of the vehicle for displaying image information
6 photographed by each digital camera on a screen of said monitor;
7 a key operator integrated with the monitor and disposed on a front face of said monitor, said
8 key operator being utilized by an occupant of said vehicle for controlling how the image information
9 is displayed on the screen of said monitor and for setting a photographing schedule for the digital
10 cameras;
11 a system controller for controlling every part of said vehicle surveillance system;
12 an image memory, being attachable/detachable with the system controller through a
13 communications port, for sequentially saving the image information photographed by the digital
14 cameras under the control of the system controller;

15 a power supply, being charged by a car battery, for supplying power to every part of the
16 vehicle surveillance system; and

17 an operation controller for turning on/off the power supply and every part of the vehicle
18 surveillance system.

1 17. The vehicle surveillance system as set forth in claim 16, further comprising:
2 a compact disc player, a digital video disk player and a television receiver each being
3 connected to said system controller for displaying images on the screen of said monitor.

1 18. The vehicle surveillance system as set forth in claim 16, further comprising:
2 a printer, a keyboard and a mouse connected to said system controller through respective
3 communications ports.